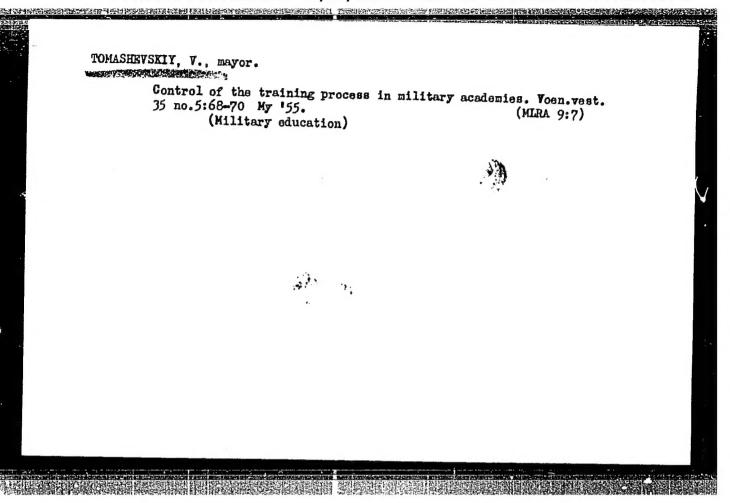
TOMASHEVSKIY, V., mayor.

Work on methodology in academies. Voen.vest. 36 no.11:
33-35 N *56.

(MIRA 10:2)

(MIlitary education)



TOMASHEVSKIY, V., podpolkovník; KALINICHENKO, F., polkovník

New tasks and obsolete me†hods. Voen.vest. 42 no.9:77-20
S 162. (MIRA 15:8)

TOMASHEVSKIY, V., podpolkovnik

Generosity of soul. Voen. vest. 41 no.4:67-68 Ap '62.

(MIRA 15:4)

(Military education)

TOMASHEVSKIY, V.L.; KHMEL'NITSKAYA, A.Z., redaktor; GOTLIB, E.M., tekhnicheskiy redaktor.

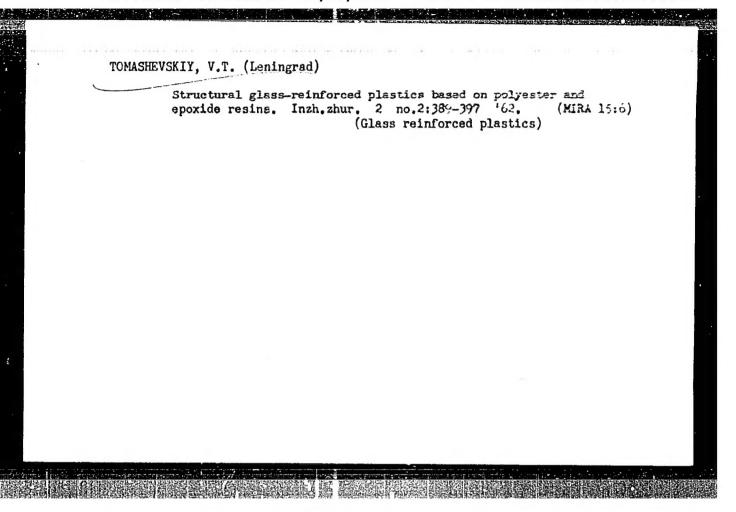
[Technology of cardboard production] Tekhnologiia kartonazhnogo proizvodstva. Moskva, Pishchepromizdat, 1953. 170 p. (Paperboard) (MIRA 7:12)

TOMASHEVSKIY, V.L.

Tekhnologiia kartonazhnogo proizvodstva (Technology of cardboard production). Moskva, Pishchepromizdat, 1953. 172 p.

SO: Monthly List of Russian Accessions, Vol. 7, No. 5, August 1954

TOMASHEVSKTY,	V L	
Prod.	Tekhnologiya Kartonazhnogo Proizvodstva (Technology of Cardboard uction) Moskva, Pishchepromizdat, 1953.	·
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AND THE REPORT OF THE PROPERTY L 29811-66 EWT(d)/EWT(m)/EWP(w)/EWP(v)/EWP(k) IJP(c) ACC NR: AP6014213 UR/0198/66/002/004/0007/0016 SOURCE CODE: AUTHOR: Tomashevskiy, V. T. (Leningrad) 1. 1. 1. ORG: none TITLE: Effect of shear and the stress condition on the stability of an anisotropic cylinder SOURCE: Prikladnaya mekhanika, v, 2, no. 4, 1966, 7-16 TOPIC TAGS: stress analysis, stability to the stress, elasticity theory, partial differential equation, variational method, cylindric shell structure ABSTRACT: The stability of an orthotropic circular cylinder is considered. The cylinder is made of a material that obeys Hocke's law and is pliable to shear displacement. The governing equations and the boundary conditions are obtained from the variational method, starting from the potential energy of deformation for the cylinder. In the derivation of these equations the variables u, v, w, φ, ψ are assumed to be linearly independent functions of the coordinates lpha and eta . For a closed cylinder, the boundary conditions are given by the equations

Card 1/2

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ACC NR: AP6014213

$$\begin{split} \frac{\partial \Phi^{\bullet}}{\partial (u_{i})_{\alpha \alpha}} \delta (u_{i})_{\alpha} &= 0; \\ \left[\frac{\partial \Phi^{\bullet}}{\partial (u_{i})_{\alpha}} - \frac{\partial}{\partial \alpha} \frac{\partial \Phi^{\bullet}}{\partial (u_{i})_{\alpha \alpha}} - \frac{\partial}{\partial \beta} \frac{\partial \Phi^{\bullet}}{\partial (u_{i})_{\alpha \beta}} \right] \delta u_{i} &= 0. \end{split}$$

As an illustration, the cylinder is assumed to be freely supported at its sides by elastic circular ribs. Numerical results are obtained and are given in tabular form where the critical pressure is listed with and without shear. It is shown that if the effects of the support or the shear effects on the stress distribution of the cylinder are neglected, inadmissible errors arise in the stability calculations of the anisotropic shell. Orig. art. has: 20 equations and 3 tables.

SUB CODE: 20/ SUBM DATE: 30Jul65/ ORIG REF: 004

Card 2/2 (V

20410-06 ENT(d) ENT(m) ENP(w)/ENP(y)/ENP(1)/T/ENP(k)/ENA(h)/ETC(m)-6 LIP(c) ACC NRI AP6008406 WW/EM/RM (A) SCURCE CODE: UR/0374/66/000/001/0108/0115 AUTHOR: Tomashevskiy, V. T. (Leningrad) ORG: none TITLE: Axisymmetric deformation of a thick circular cylinder of fiber glass reinforced plastic reinforced with rigidity ribs 3.6 SOURCE: Mekhanika polimerov, no. 1, 1966, 108-115 TOPIC TAGS: fiberglass, reinforced plastic, plastic deformation, deformation rate, shell theory, reinforced shell structure ABSTRACT: A system of differential balance equations for a thick fiber glass reinforced plastic cylinder reinforced by rigidity ribs is given. A solution is given for the system in consideration of the compatibility of deformation for the shell and the ribs under limit conditions. The limits of application of the thin shell theory are determined, and suggestions on the choice of optimal reinforcement systems are presented. Orig. art. has: 19 formulas and 3 tables. [Based on author's abstract.] SUB CODE: 11/ SUBM DATE: 17Jul65/ ORIG REF: 002/ UDC: 678:639.37-43:678.506

TOMASHEVSKIY, V.T., kand. tekhn. nauk, inzhener-kapitan 3-go ranga
Synthetic construction materials in submarine building. Mor.
sbor. 48 no.7:69-72 J1 '65. (MIRA 18:8)

ACC NR: AP7006926 SOURCE CODE: UR/0198/67/003/001/0034/0041

AUTHOR: Tomashevskiy, V.T. (Leningrad)

ORG: none

TITLE: On a method of investigating the stability of anisotropic circular cylinders under arbitrary boundary conditions

SOURCE: Prikladnaya mekhankia, v. 3, no. 1, 1967, 34-41

TOPIC TAGS: cylindric shell, shell stability, shell buckling, thouse states, clastic clamping factor ANISOTROPIC MEDIUM

ABSTRACT: A thin orthotropic circular cylindrical shell with faces supported by elastic rings is subjected to a combination of longitudinal uniformly distributed and lateral loads. The materials of both shell and supporting rings obey Hooke's law. An approximate method of investigating the stability of this shell under arbitrary boundary (support) conditions is proposed. The integral-mean value of the hoop stresses is introduced into the system of differential equations describing the prebuckling state of stress in the shell. The Bubnov-Galerkin method is used in deriving a system of equations from which the critical values of hoop stresses can be determined by equating the determinant of this system to zero. The possibility of approximating

Card 1/2

UDC: none

AP7006926 (with satisfactory engineering accuracy) the mode of the shell buckling is indicated. The buckling of a closed cylindrical shell elastically clamped along its face edges is investigated as an example, introducing an elastic coefficient k which reduces the edge-clamping moment. An expression for determining the critical values of hoop stresses in cases of edges simply supported ($\kappa = 0$) and perfectly fixed ($\kappa = 1.0$) is derived. A formula is also derived for determining κ for a given shell by successive approximations. Some results of a numerical calculation are given and are discussed, pointing out the effects of rigidity of rings and of the shell, of anisotropy of elastic characteristics of their materials, and of boundary (support) conditions on the buckling behavior of the shell. Orig. art. has: 2 tables and [VK] 19 formulas. [WA-52] SUB CODE: 20/ SUBM DATE: 09Sep65/ ORIG REF: 006/ Card

TOMASHEVSKIY, Ya.I.

Therapeutic value of vitamin B, and nicotinic acid in motor disorders of the stomach. Vrach.delo no.4:433-434 Ap '60.

1. Kafedra propedevticheskoy terapii (zav. - dotsent V.I. Chernov) lechebnogo fakul teta L'vovskogo meditsinskogo instituta.

(THIAMINE) (NICOTINIC ACID) (STOMACH-DISEASES)

TOMASHEVSKIY, Ya.I.

Influence of vitamin B₁ on the secretory and occupant function of the stomach. Vrach.delo no.5:537-539 My 159.

(MIRA 12:12) Influence of vitamin B1 on the secretory and evacuatory motor

1. Kafedra propedevticheskoy terapii (zav. - dotsent V.I. Chernov) lechebnogo fakuliteta Livovskogo meditsinskogo instituta. (HILMAIHT) (STOMACH--DISEASES)

CIA-RDP86-00513R001756210006-3" APPROVED FOR RELEASE: 04/03/2001

在一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就

TOMASHEVSKIY. Ya.I.

Role of nicotinic acid in the regulation of the secretary and the evacuatory-motor function of the stomach. Vrach.delo no.9:985 S 159.

(MIRA 13:2)

l. Kafedra propedevticheskoy terapii (zaveduyushchiy - dotsent V.I. Chernov) lechebnogo fakuliteta Livovskogo meditsinskogo instituta.

(NICOTINIC ACID)

Gastric secretory function in the treatment of peptic ulcer and chronic gastritis with Vitamin B₁ and nicotinic acid. Vrach. delo no.8:138-139 Ag '61. (MIRA 15:3)

1. Kafedra propedevticheskoy terapii (zav. - dotsent V.I. Chernov) lechebnogo fakul'teta L'vovskogo meditsinskogo instituta. (STOMACH.-DISEASES)

(THIAMINE) (NICOTINIC ACID)

TOMASHEVUKIY, Yuriy lvcnovich; kalvolulov, Yuriy dletomalcovich;
DEGTYAKEV, Lev Bizhaylevich; bvbt, Ye.m., ren.

[Mechanized casting of grinding media in chilis] Hezhanizirovannaia ctlivba meliushchikh tel v kokili. Choliabinsk,
Choliabinskoe knizhnoe izd-vo, 1961. 29 p. (BIRA 1709)

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18(5), 28(1)

SOV/128-59-10-10/24

AUTHORS:

Pozdnyshev, V.M., Candidate of Technical Sciences, Sal'nikov, V.V., Krivopalov, Yu.I., Tomashevskiy, Yu.I., and Shabonov, N.S., Engi-

TITLE:

Conveyer Mould Machine for the Casting of Mill Balls

PERIODICAL:

Liteynoye proizvodstvo, 1959, Nr 10, pp 30-31 (USSR)

ABSTRACT:

The authors present a technology for mass production of mill balls, which has been developed by the Nauchno-issledovatel'skiy institut tekhnologii mashinostroyeniya Chelyabinskogo sovnarkhoza (Scienti-fic Research Institute for Technology of Machine Building of the Chelyabinsk Sovnarkhoz), together with the Katav-Ivanovyy lite-yno-mekhanicheskiy zavod (Katav-Ivanovo Foundry Mechanical Factory). This technology is based on a conveyer mould machine with vetical plane and with continuous Priming (Fig.1). The basic part of the machine is a vertical closed chain (#1), on which the moulds are fastened and transported by special rolls (#2). The moulds have a traveling part (#3) and a fixed part (#3a). The chain moves in two gears on the frame (#4). The metal is poured with the pouring plat-

Card 1/2

SOV/128-59-10-10/24

Conveyer Mould Machine for the Casting of Mill Balls

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form (#5) onto that section of the chain which has the maximum tension (#6). At the present time, complete mechanization of mill ball production is being worked on. There are 2 photographs.

Card 2/2

POLAND/Cultivated Plants. Grains.

M

Abs Jour: Ref Zhur-Biol., No 5, 1958, 20283.

Author : Z. Tomeshevskiy, A. Brodovskeya.

Inst : The Institute of Plant Cultivation and Acclimatization. : A Plan of Scientific Studies of Corn. (Plan nauchnykh

rabot po kukuruze).

Orig Pub: Biul. Inst. hodowli i aklimet. roslin, 1956, No 11,

Abstract: No abstract.

Card : 1/1

> CIA-RDP86-00513R001756210006-3" APPROVED FOR RELEASE: 04/03/2001

TCMASHIN, I.

More attention to the needs of workers on virgin lands. Sov. profsoiuzy 6 no.8:34-35 Jl 158. (HIBA 11:9)

1.Glavnyy agronom sovkhoza "Novo-Nikol'skiy" Akmolinskoy oblasti, Kazakhskoy SSR.

(Akmolinsk Province--Agricultural laborers).

TOMASHIVSKIY, D.I.

Relationship of plantar and palmar reflexes in epidermophytosis. Vest. derm. 1 van. nc.2:26-32 165. (MIRA 18:10)

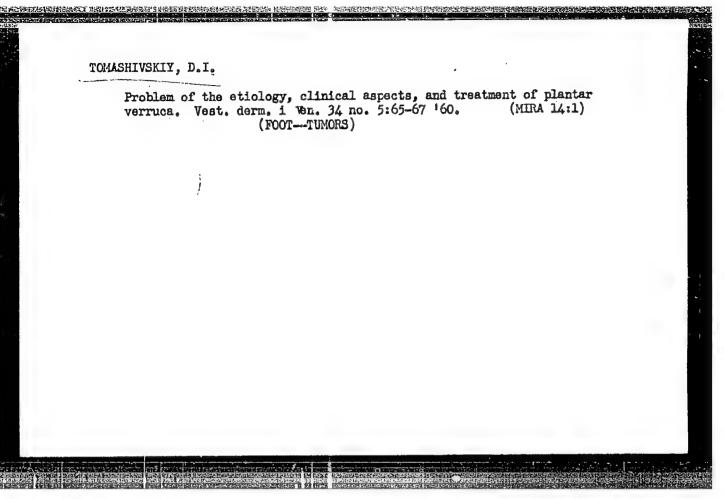
1. Kafedra kozhnykh i venericheskikh beleznoy (zav. - prof. A.R. Shifrin) Ivano-Frankovskego meditsinskego instituta (nauchnyye rikovoditeli rabot - chlen-korrespondent AMN SSSR prof. P.V. Kozhevnikov i pref. A.R. Shifrin).

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756210006-3"

SHIFRIN, A.R., doktor med. nauk; TOMASHIVSKIY, D.I.

Secondary eruptions associated with antitularemia vaccination. Sov. med. 26 no.11:56-59 N'62 (MIRA 17:3)

1. Iz kafedry kozimykh i venericheskikh bolezney (zav. - dok-tor meditsinskikh nauk A.R. Shifrin) Stanislavskogo meditsinskogo instituta (rektor - dotsent G.A. Babenko).



TOMASHKOVA, Yana [Tomaskova, Jana], doktor; PAVLASKOVA, Lidiya
[translator]; ERZHIZOVA, Ioza [Brizova, Joza], otv. red.

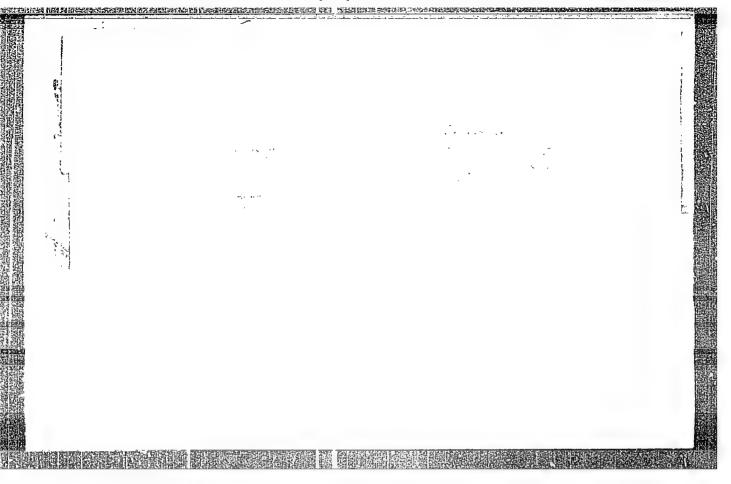
[Health and beauty care] Zabota o zdorov'e i krasote. Przgue,
Izd-vo "Pratse," 1961. 118 p. (MIRA 15:4)

(HEAUTY CULTURE) (WOMEN—HEALTH AND HYGIENE)

TSYPKIN, B.V., inzhener; AL'SHITS, I.Ya., kandidat tekhnicheskikh nauk;
TOMASHOV, A.D., inzhener; REVIN, I.A., inzhener, retsenzent;
GOLOVIN, Te.S., kandidat tekhnicheskikh nauk, redaktor.

[Bearing units for rolling machinery] Podshipnikovye uzly prokatnogo oborudovaniia. Moskva, Gos. nauchno-tekhn. izd-vo machinestroit. i sudo-stroit. lit-ry, 1954. 290 p. (MLRA 7:7)

'Rolling-mill machinery) (Bearings (Machinery))



EWI(m)/EWP(t)/ETI LIP(c) JH/JD/WB/GD SOURCE CODE: UR/0000/65/000/000/0180/0190 ACC NRI AT6013797 62 AUTHOR: Tomashoz, N. D.; Zalivalov, F. P. 8+1 ORG: none TITLE: Formation and growth of anodic oxide films on aluminum alloys SOURCE: Korroziya metallov i splavov (Corrosion of metals and alloys), no. 2. Moscow, Izd-vo Metallurgiya, 1965, 180-190 TOPIC TAGS: anodization, aluminum base alloy, intermetallic compound, electric potential, corrosion ABSTRACT: Considering that the anodizing of alloys with a substantial content of alloy components involves special difficulties and, on the other hand, the anodic oxidation of homogeneously structured Al alloys has been fairly well investigated, this study deals with the anodic oxidation of heterogeneous Al alloys. To this end; the authors melted special binary alloys (15% Mn, 35% Si, 12% Fe, 46% Cu, 45% Mg, 55% 2%) in which the intermetallic compounds represented large crystals with surface area of from 1 to 2-3 mm². Voltage-time curves were plotted for the overall surface of the alloy as well as for the individual components of the alloy -- the eutectic and cry#tal. In addition, the alloy potential before and after enodic oxidation was me/sured with respect to a Hg2SO4 reference electrode. The anodizing was performed in 4W H2SO, at 25°C (current density 1 a/dm2, anodizing time 5 sec and 20 min). It is

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ound that, in the pr	ocess of anodizing, such allo	y components as crystals of Si and	¥-11-11-11-11-11-11-11-11-11-11-11-11-11
with sec covered with	n a chin oxide riim and pass	into anodic film. As for FeAl3 and	
aniz crystais, uurin	on the location of crystals	completely dissolve or pass into	
maller crystals, as	well as crystals present at t	the alloy surface are most prone	
dissolve, while la	rger crystals not present dir	ectly at the alloy surface at the	
nset of anodizing pa	ss into the anodic film. By	contrast, the anodizing of Al-Mo	
nd Al-Zn alloys lead	s to an intensive dissolution	of their intermetallic components	
s evidenced by the f	act that the potential of the	Al-Mg and Al-Zn alloys returns to	
s original value im	mediately after the anodic cu	rrent is disconnected. Thus every	
idividual Al alloy d	isplays special features of i	ts own depending on the nature of	
s structural compon	ents; on this basis, three g	roups of Al alloys may be distin-	
th Mn and Si for w	e effect of anodic oxidation:	the first group includes alloys	
InAl, and Si crystal	mich the voltage increases an	arply and the structural components use oxide film; the second group	
cludes alloys with	Fe and Cu. whose invermetalli	c compounds are insufficiently	
otected against cor:	rosion even when covered by a	n oxide film: and the third group	
cludes alloys with ?	Mg and Zn. which completely 1	ack a protective oxide film and so	
e highly corrosion-	prone. Orig. art. has: 6 fi	gures and 1 table.	
the second of the second of the second		• • • • • • • • • • • • • • • • • • • •	1.2

ACC NR: AT6013799 / () SOURCE CODE: UR/0000/65/000/000/0200/0207	70
AUTHOR: Tomashov, N. D.; Zalivalov, F. P.	8+1
DRG: none	
TITLE: Investigation of the barrier layer of thick anodic films on aluminum	27
SOURCE: Korroziya metallov i splavov (Corrosion of metals and alloys), no. 2 loscow, Izd-vo Metallurgiya, 1965, 200-207	
OPIC TAGS: loop oscillograph, anodization, aluminum, oxide formation, corros lielectric breakdown, surface film/MPP-2 loop oscillograph, AV000 extra-pure A	ion, 1
BSTRACT: Considering the widespread use of the method of thick-film anodizing the definite effect of the barrier layer on such properties of porous anodic f	ilms as
corrosion resistance and resistance to dielectric breakdown, the authors investhe thickness of the barrier layer as a function of applied voltage, temperature	re,
electrolyte concentration and anodizing time. The tests were performed on special concentration and anodizing time. The tests were performed on special concentration and conc	d in
sulfatic electrolyte. The thickness of the barrier layer was determined by the echnique suggested by Hunter and Fowle (J. Electrochem. Soc., 1954, 101, 9, 4	81;
.0, 514). Findings: the thickness of the barrier layer increases linearly with	h the
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ACC NR: AT6013799

voltage applied (at the rate of somewhat more than 10 Å/v and decreases with increasing electrolyte temperature (owing to the attendant increase in the dissolving power of the electrolyte); it also decreases with increasing H2SO, concentration (from 2N to 8N), though not as steeply as with increasing temperature. As for the effect of anodizing time on barrier-layer thickness, this thickness changes only during the first few seconds, when the curve passes through a peak, whereupon it remains constant even for films whose anodizing time lasts for 15 min and longer. Curves plotted with the aid of an MPP-2 loop oscillograph show that the increase in barrier-layer thickness is accompanied by an increase in terminal voltage, as confirmed by measurements of ohmic resistance, which increases from 10 to 18 ohm-cm when the layer thickness increases from 50 to 300 A; as in the case of the effect of anodizing time, however, this increase soon passes through its peak and steadies out owing to the onset of the formation of the porous structure -- since the increase in current intensity enhances the aggressive effect of the acid (the ohmic resistance of the oxide film decreases in the pores). Hence, the following theory may be offered: the first pores in the oxide film arise at some defective spots, e.g. cracks or at the crystallite boundaries. The growth of the pore at the outer part of the barrier film is accompanied, at the film-metal interface, by the growth of a new layer of oxide whose individual cells are shaped like a semisphere whose convex side faces the metal. During the first few seconds of anodizing, when the peak thickness

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covered build be a considered by the constant of the constant	i by the pore ing blocks" of plyte reacher	es, with of porous s the bar xide. The	the attenda anodic fil rier layer us, it may ickness, gr	int growth of lms. In the via the por- be assumed to rows above the	ce of the bar f oxide cells course of fi es, thus lead that the porc he barrier fi	s represent ilm growth ling to the ous layer o	the formation f the anodic
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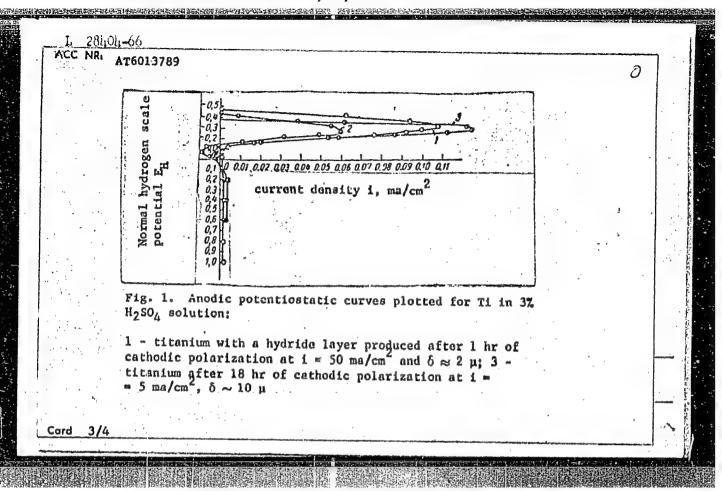
	28h0h-60 EHT(E)/FMP(t)/ETI IJP(c) JD/WB/GD CC NR. AT6013785 (N) SOURCE CODE: UR/0000/65/000/000/0080/0102
F	UTHOR: Tomashov, N. D. (Doctor of chemical sciences, Professor); Modestova, V. N.; lavich, L. A.; Averbukh, A. B. RG: none
T	ITLE: Study of the electrochemical behavior of titanium
	OURCE: Korroziya metallov i splavov (Corrosion of metals and alloys), no. 2 oscow, Izd-vo Metallurgiya, 1965, 80-102
	OPIC TAGS: electrochemistry, corrosion, titanium, electric potential, anodization, ulfuric acid, titanium oxide
d V a p	ESTRACT: Ti is an electronegative metal. The standard electrode potential of its issolution in the form of divalent ions Ti ²⁺ is -1.63 v, and in the form of trialent ions Ti ³⁺ , -1.21 v. Nevertheless, the intense corrosion of Ti, as well as its modic dissolution in solutions of non-oxidizing acids, occurs in the presence of otentials that are approx. 1 v more positive than the above values, i.e. at -0.45 and -0.25 v. This indicates that the dissolution of Ti during corrosion and anodic appolarization occurs with an exceptionally high anodic inhibition. In studies of
	he electrochemical behavior of Ti allowance must be made for the thermodynamic
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ACC NR: AT6013789

possibility of the existence of both the hydride and the oxides of Ti at the surface of Ti over a broad range of potentials, the more so as it is known that not only the oxides but also the hydride of Ti usually inhibit the corresion rate of Ti in acids. It has also been observed that prior cathodic polarization inhibits in certain cases the anodic dissolution of Ti. In this connection the authors investigate the effect of the hydride layer, forming on Ti during its corrosion or cathodic polarization, on the electrochemical dissolution and oxidation of Ti. To this end, the anodic potentiostatic curves were plotted for Ti with various duration of prior cathodic polarization of its surface. On comparing curves 1 and 2 in Fig. 1 it can be seen that the hydride layer produced during 1 hr of cathodic polarization sharply inhibits the process of the anodic dissolution of Ti: the limiting passivation current is reduced nearly in half. If this prior cathodic polarization is prolonged for 18 hr, however, an opposite effect is produced: the maximum anodic current increases (curve This is due to the loosening and augmentation of true surface area of Ti owing to the absorption of hydrogen. In the region of active anodic dissolution the surfaces of Ti (whether pure or with hydride layer) get oxidized. The degree of this oxidation increases as the potential changes from its normal value to a positive (anodic) value. Studies of the corrosion resistance of Ti oxides show that the oxides forming in the presence of a potential of +1.0 v in a 3N H2SO4 solution, and particularly in diluted 0.5N or 0.1N H2SO4 solutions, are relatively resistant in the region of active anodic dissolution and in conditions of cathodic polarization.

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the process of						
thickness of the oxidation, diff	usion of Ti io	ons takes pla	ace from th	ne metal aci	oss the hydrid	e layer.
The relative co						
has: 11 figure	s, 1 table					, • •
SUB CODE:	07, 11	SUEM DATE:	19Jul65/	ORIG REF:	013 OTH REF	: 008
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AUTHOR: Tomashov, N. D.;	Leonov, V. V.	61 B+	
ORG: none			
TITLE: Effect of zinc fil	ler on the protective proper	ties of bituminous coatings 12	
SOURCE: Korroziya metallo Moscow, Izd-vo Metallurgiy	ov i splavov (Corrosion of me	tals and alloys), no. 2	
	eating, filler, zinc, metal co	oating, electrode, steel	
structure / St. 3 steel	decing, fiffer, sinc, access	4	
ABSTRACT: Recently paint	and varnish coatings with me	tal-powder (chiefly Zn and Al)
fillers have begun to be w In this connection, the ar	ridely used to protect steel :	structures against corrosion. the protective effect of zin	. /5 c
filler on bituminous coati	ings. The film-forming agent	used was a primer (solution tain uniform and thin bitumi-	OI
nous costings), and the fi	ller was zinc dust (particle	size I p). Films with	
RO ut. % of the film) were	of Zn filler (0 to 30% vol.%, investigated. Iron wire ele	ctrodes (of St. 3 steel) were	
	me thickness of thin films wa	s determined by measuring	
used as the specimens. Th	t as thick films, with the si		L
used as the specimens. The electrode capacitance, and	i of thick films, with the ai		

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ACC NR: AT6013800

quantities measured were: the change in potentials, capacitance and ohmic resistance and corrosion rate of the electrodes when coated with films 0.5 to 500 µ thick and immersed in a 0.5N solution of NaCl. The observed pattern of variation in these quantities indicates that for thick (>10-20 µ) coatings the corrosion rate of the electrodes remains negligibly small. This points to high protective properties of the coating itself as well as of the layer of the dissolution products of Zn forming at the coating's surface. Experiments with pairs consisting of a non-coated electrode and a coated electrode showed that for some time, which is a function of the thickness of coating and its Zn concentration, the coated electrode works as an effective anode with respect to the corrosion medium. A study of the behavior of these coatings in clay and sand with 10% moisture content shows that even thin Znfiller coatings protect iron in soil for a much longer period of time than in liquid electrolytes: this finding points to the great usefulness of Zn-filled bituminous coatings for subsurface structures -- greater than for surface structures or for liquid corrosion media. The mechanism of action of the Zn filler is not confined to the protective electrochemical effect of Zn particles with respect to the protected metal but is also based on the eventual densification of the surface layer of the coating by the relatively insoluble products of the corrosion of Zn. Orig. art. has: 10 figures

SUB CODE: 13, 07, 11, 20/ SUEM DATE: 19Ju165/ ORIG REF: 005/ OTH REF: 002

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UR/0000/66/000/000/0166/0177 SOURCE CODE: AT7004169 ACC NRI Tomashov, N.D.; Matveyeva, T.V. AUTHOR: ORG: none Corrosion and electrochemical behavior of rhenium TITLE: SOURCE: AN SSSR. Institut fizicheskoy khimii. Korroziya i zashchita konstruktsionnykh splavov (Corrosion and protection of structural alloys Moscov, Izd-vo Nauka, 1966, 166-177 TOPIC TAGS: rhenium, mhenium corrosion, Rhenium electrochemical and presidention presidention notestial Specimens of rhenium, sintered from 99.999%-pure electrolytic rhenium ABSTRACT: powder, were forged with intermediate annealing in vacuum at 2000C and tested for electrochemical and corrosion behavior in H2SOL, H3POL, KOH, HNO3 and NaCl solutions of various concentrations at temperatures ranging from 25 to 100C and for time periods up to 200 days. Corrosion tests were made on specimens fully submerged into solutions under conditions of natural aeration. In fully nonoxidizing media, e.g. distilled oxygen-free water, rhenium at 1000 had a very low corrosion rate (0.001 g/m2hr). In nonoxidizing acids (sulfuric, hydrochloric, phosphoric) of any concentration in the presence of air oxygen, the corrosion rate was less than 0.001 g/m2hr at 25C and slightly higher, UDC:

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ACC NR AT7004169 max. 0.016 g/m2hr, at 100C. Rhenium had a similar low corrosion rate, less than 0.001 g/m2hr, in distilled water with access to air oxygen at 25C; but at 100C, the corrosion rate was 0.05 g/m2hr, the same as that in 0.8 and 16% NaCl solutions at 100C. Alkalies were found to be more reactive with rhenium than nonoxidizing acids; even at 250 the rhenium dissolution rate in 3 and 10% KOH solutions was 0.015 g/m2hr. In oxidizing media (hydrogen peroxide solutions at a concentration higher than 0.05%; nitric-acid solutions at a concentration higher than 10%) rhenium corroded readily; its corrosion rate in 40% nitric acid was about 200 g/m²hr and remained practically constant with further increases in the acid concentration. In the investigated solutions, rhenium corrosion has an electrochemical nature, and the corrosion behavior is determined entirely by the kinetics of the anodic and cathodic processes under the investigated conditions. Oxidizing solutions which ensure the effective course of cathodic depolarization shift the stationary potential of rhenium into the positive region (up to +1.0 v), which results in a high corrosion rate because of the overpassivation phenomenon. The passivation properties of rhenium are very weak. In nonoxidizing acids at the near-stationary potentials (up to +0.85 v) rhenium is passive (the anodic current is less than 0.001 mamp/cm2). In the same region of potentials (from 40.4 to +0.8 v), rhenium is passive to some extent also in NaCl and KOH solutions but at relatively high current densities (about 1.0 mamp/cm2). Orig. art. has: 7 figures and 1 table. SUB CODE: 11/ SUBM DATE: 278ep66/ ORIG REF: 003/ OTH REP: ATD PRESS: 5116 Card

ACC NR. AP7002390

SOURCE CODE: UR/0020/66/171/005/1134/1137

AUTHOR: Tomashov, N. D.; Strukov, N. M.; Vershinina, L. P.

ORG: Institute of Physical Chemistry, Academy of Sciences, SSSR (Institut fiziches-koy khimii Akademii nauk SSSR)

TITIE: Effect of continuous renewal of the surface of certain metals on the cathodic process of hydrogen evolution

SOURCE: AN SSSR. Doklady, v. 171, no. 5, 1966, 1134-1137

TOPIC TAGS: cathode polarization, hydrogen, metal surface, lead, tin, iron, nickel, palladium

ABSTRACT: Cathodic polarization curves were recorded for Pb, Sn, Fe, Ni and Pd in 1 N H2SQ4 under argon at 20°C while the surface of the metal was being continuously renewed by means of an emery wheel. The electrode was cathodically polarized by an external current source. The data indicate that on nickel, the discharge of N+ ions with the formation of adsorbed atoms and their removal from the electrode surface take place at comparable rates, so that during continuous renewal of the surface the effect of hydrogen overvoltage drop on this metal is appreciable. On lead, however, the hydrogen overvoltage is determined solely by the slowness of the step of discharge of N+ ions, and therefore the continuous renewal of the surface does not substantially affect the hydrogen overvoltage on lead. From the standpoint of their behavior during

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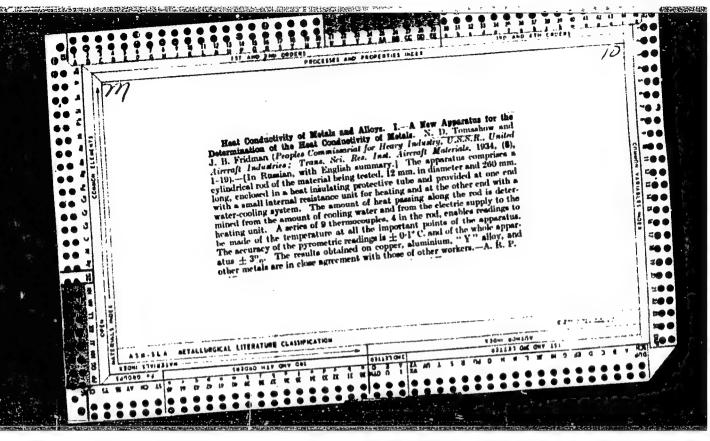
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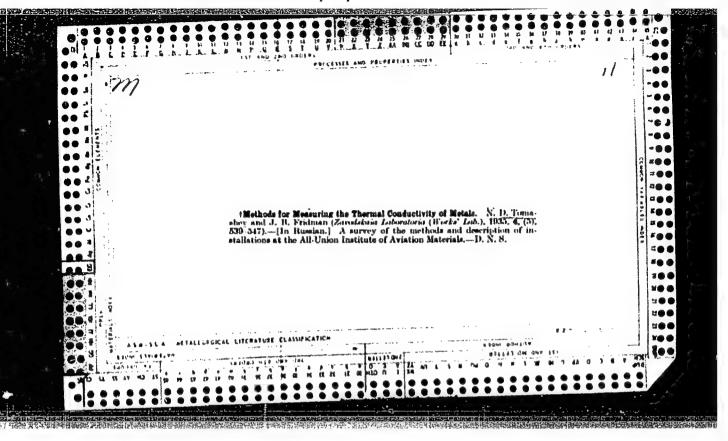
cleaning, the metals studied are divided into two groups: those which adsorb hydrogen well (Fe, Ni, Pd), and those which adsorb it poorly (Pb, Sn). In the latter group, hydrogen overvoltage is solely determined by the slow discharge step. In the former group, hydrogen overvoltage is determined not only by this step, but also by the slowness of the steps involving removal of hydrogen from the metal surface. Thus, for palladium it was found that at the current density employed, 10 mA/cm², 2/3 of the total overvoltage is determined by the slowness of the steps involving removal of hydrogen from the Pd surface, and only 1/3 by the slow discharge step. The paper was presented by Academician Spitsyn, V. I., 22 Mar 66. Orig. art. has: 3 figures and 2

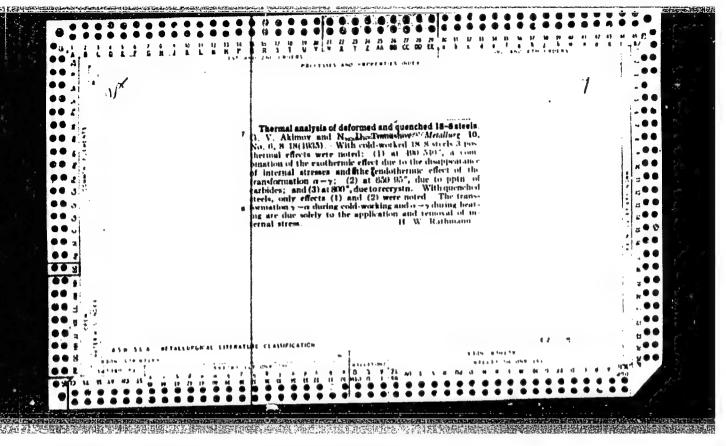
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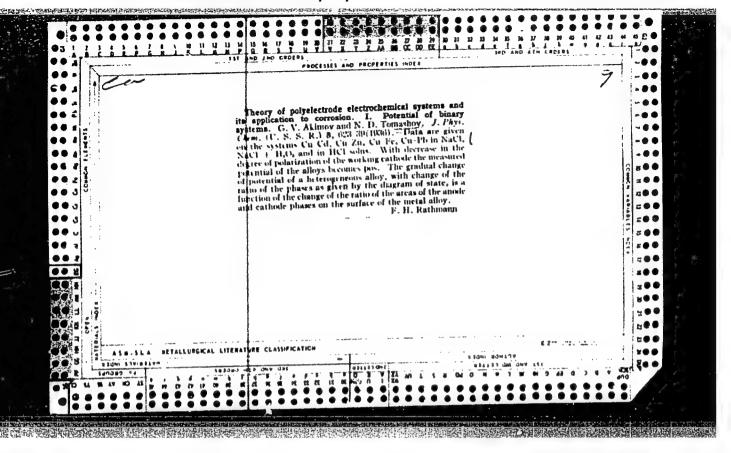
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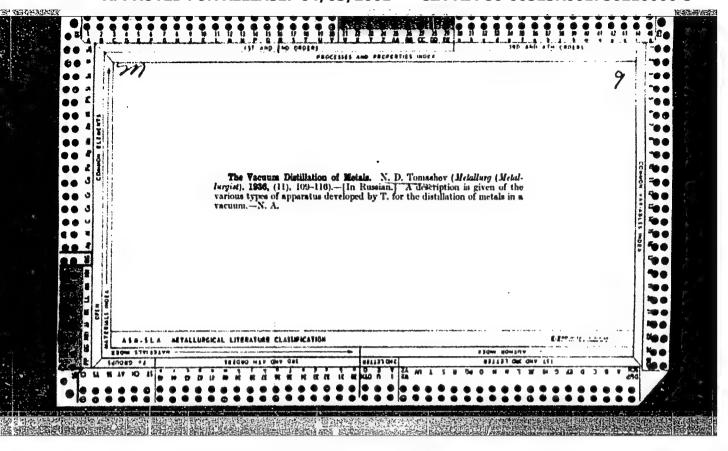
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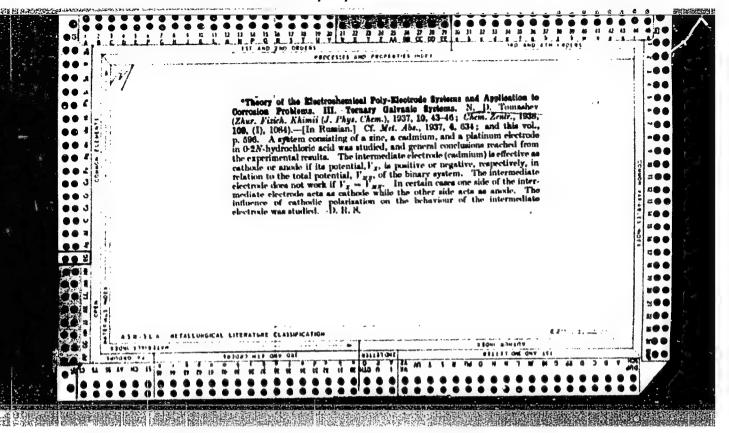


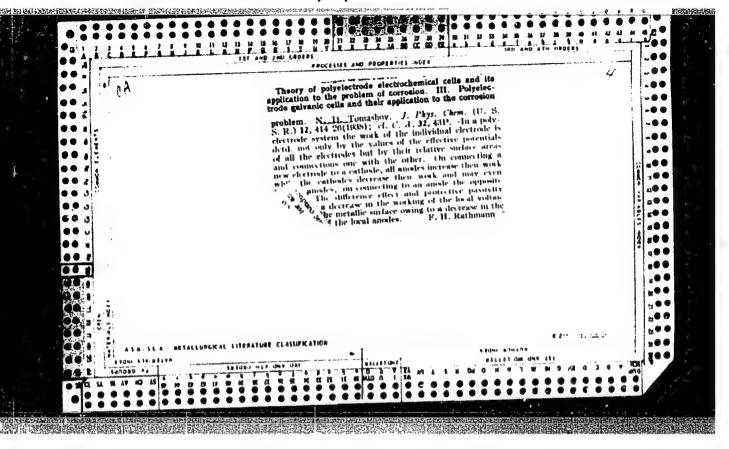


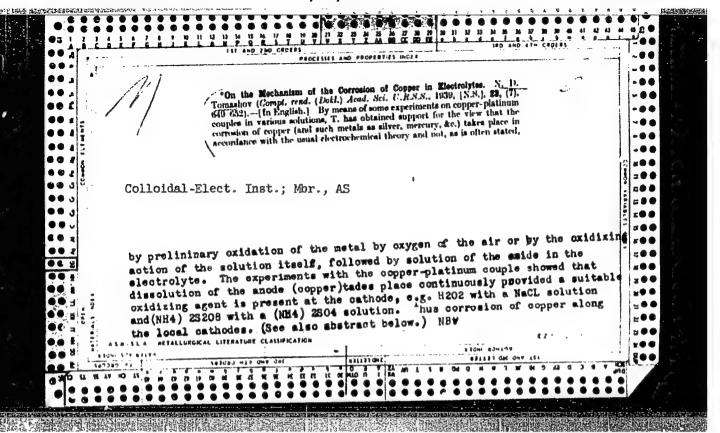


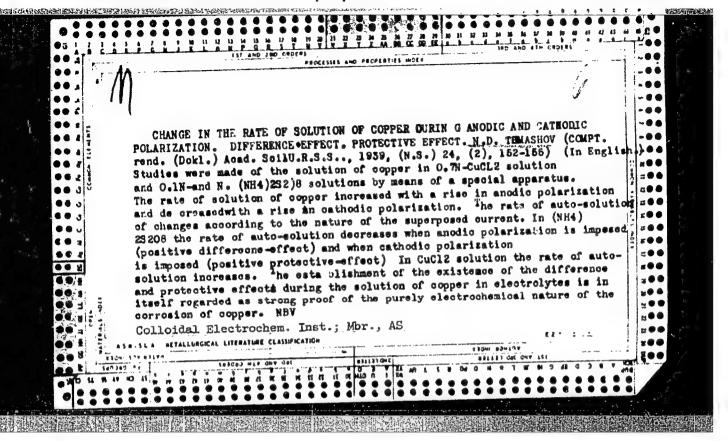












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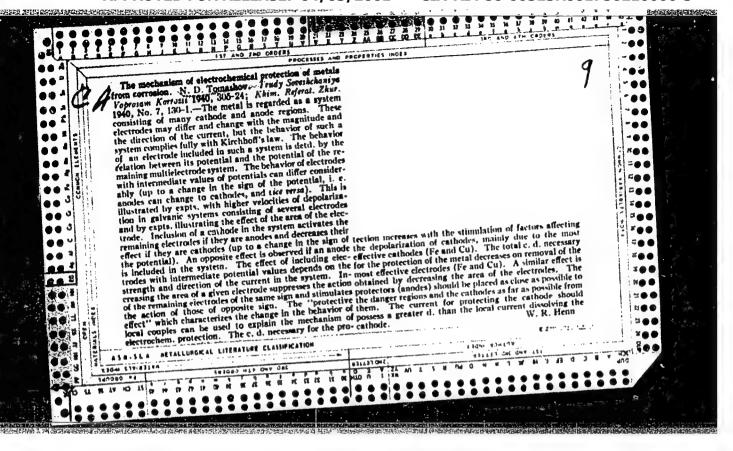
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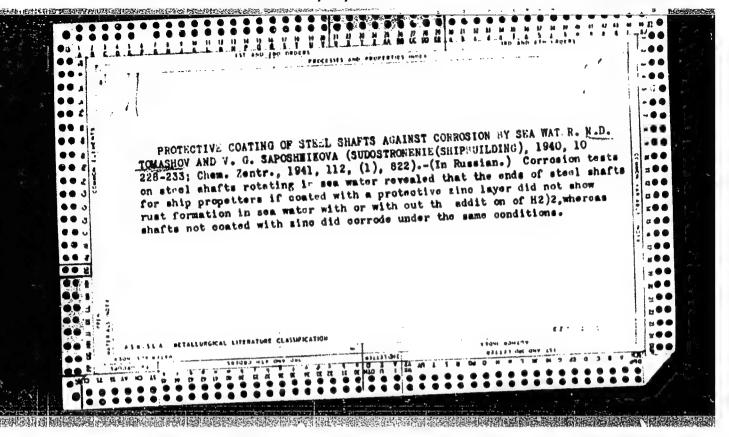
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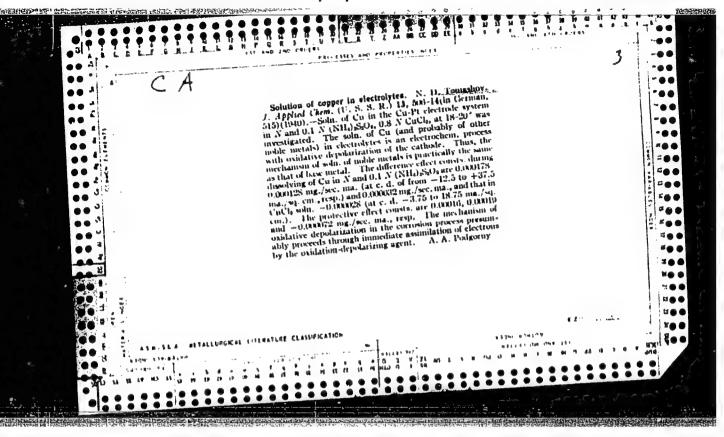
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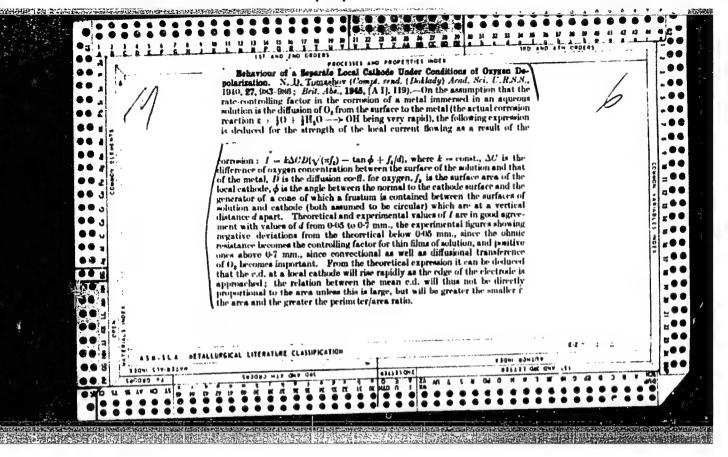
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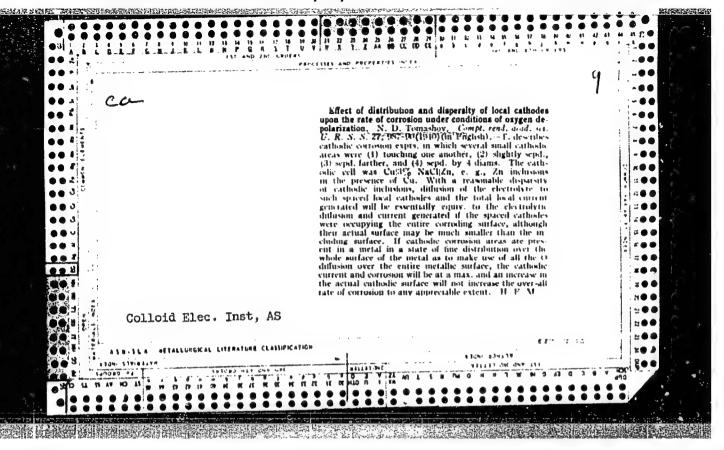
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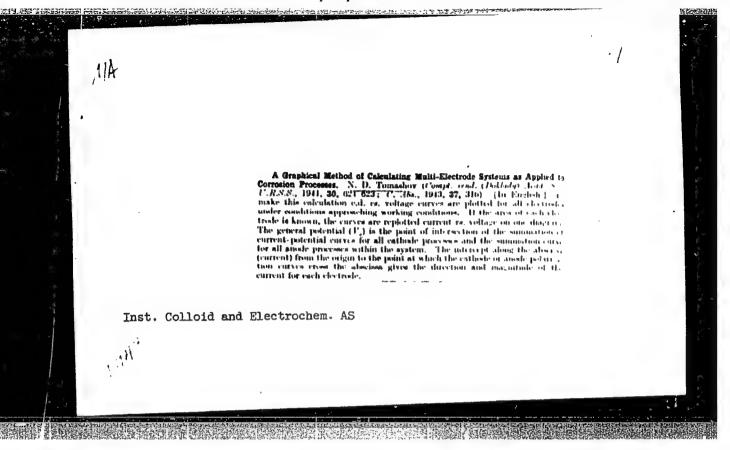








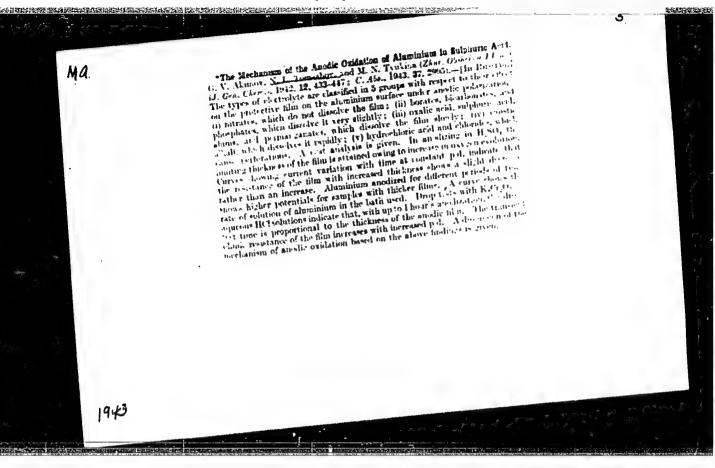


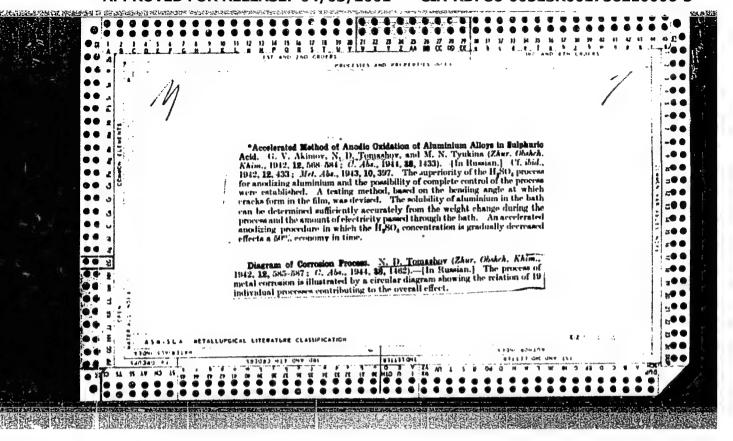


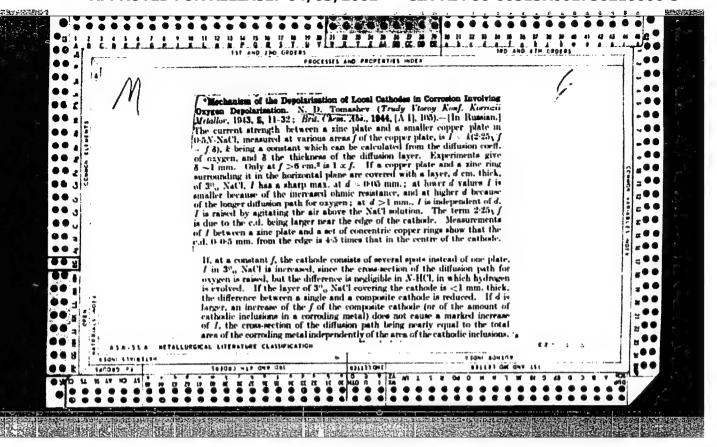
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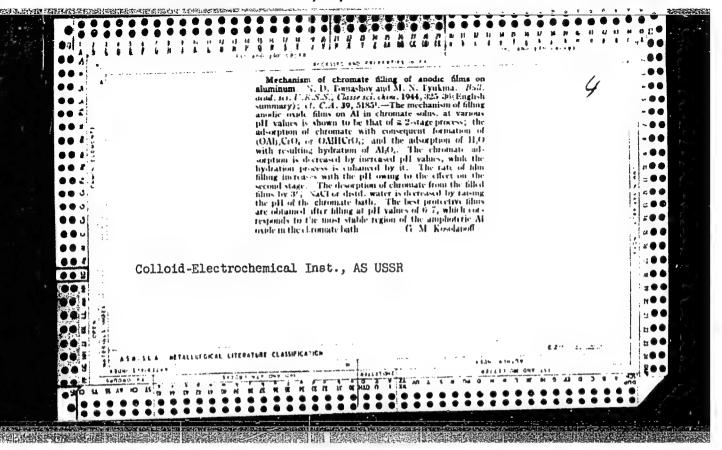
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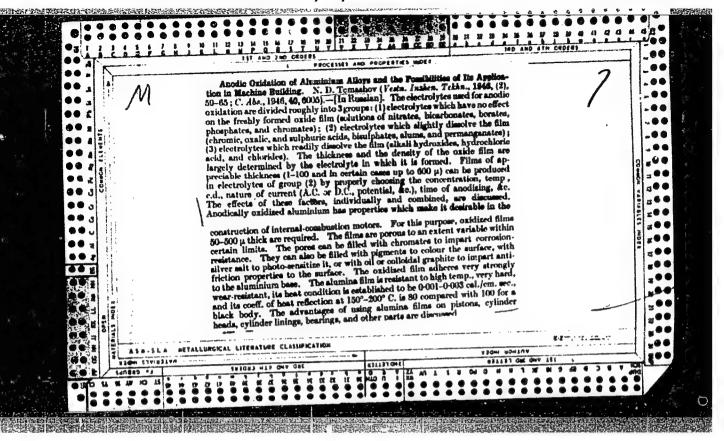


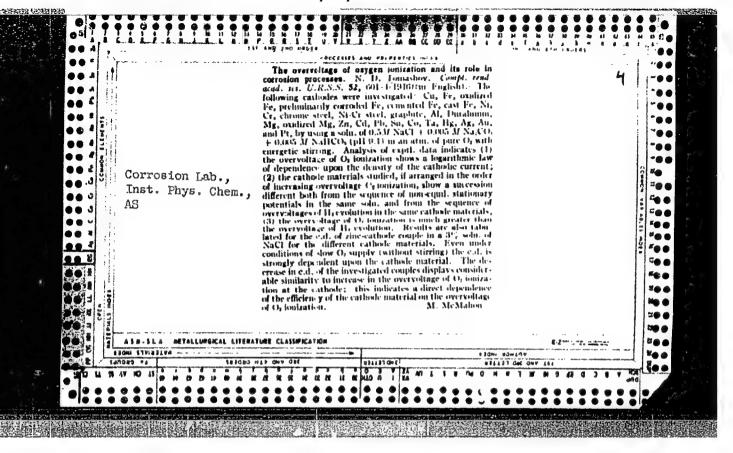


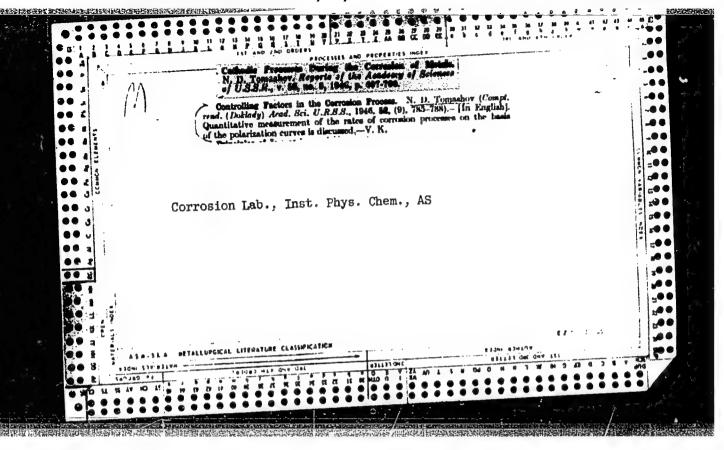


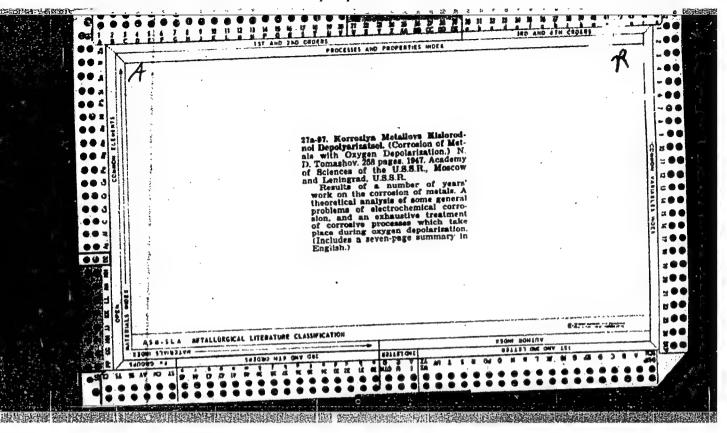
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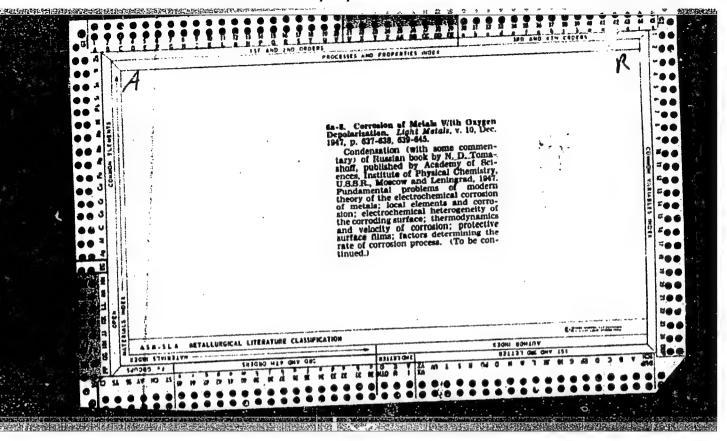
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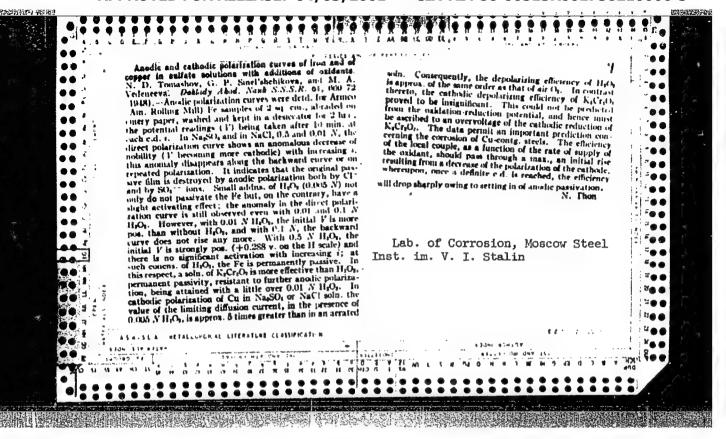
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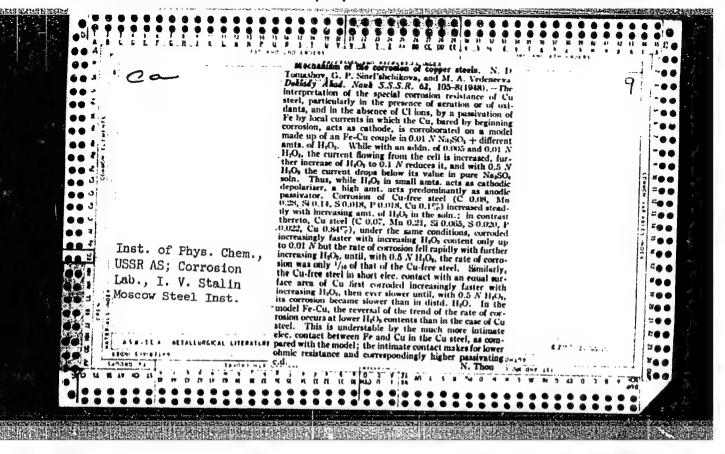
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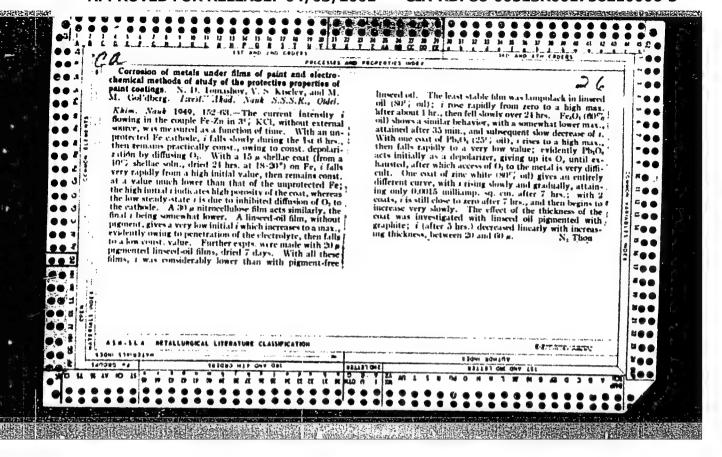
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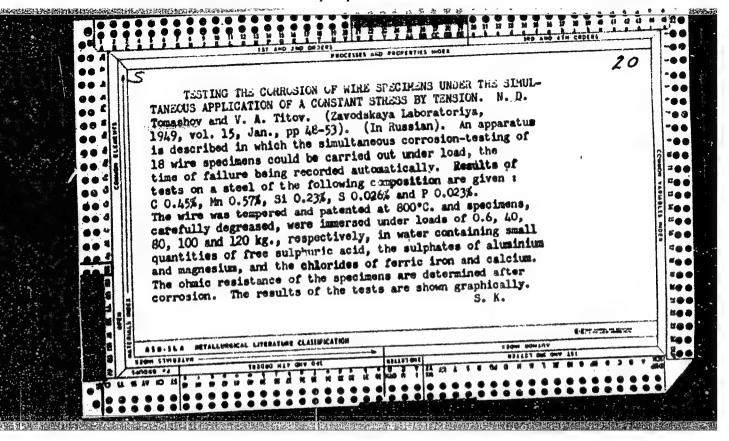
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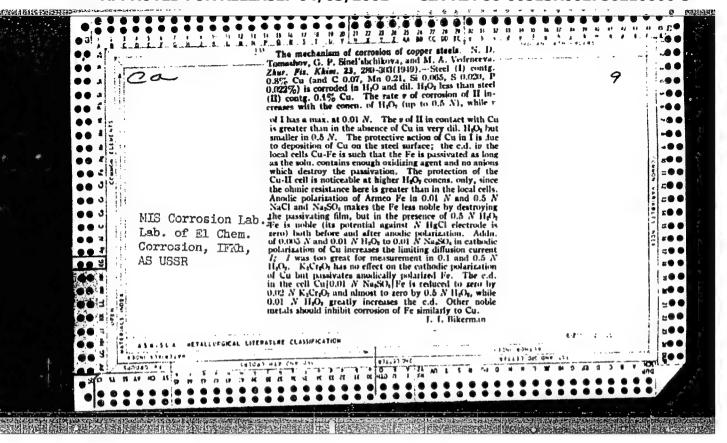
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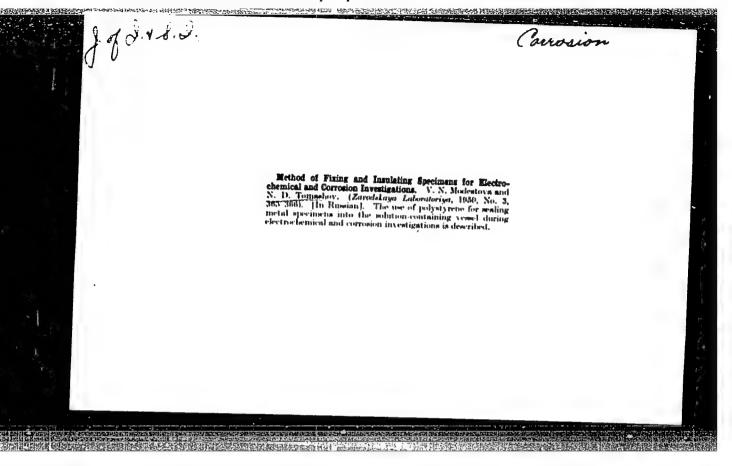
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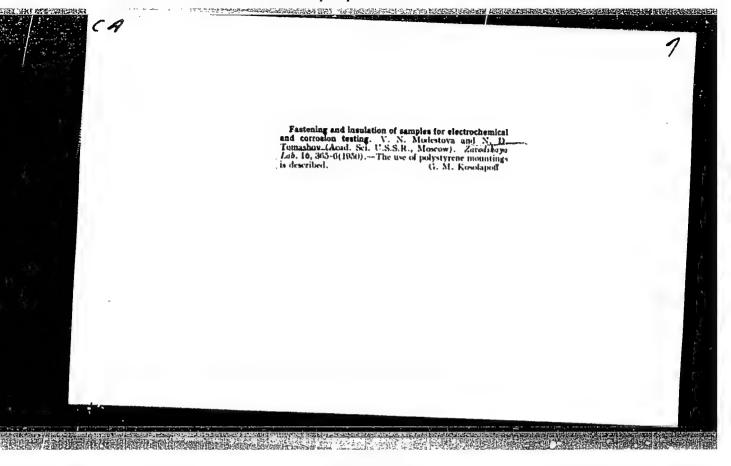
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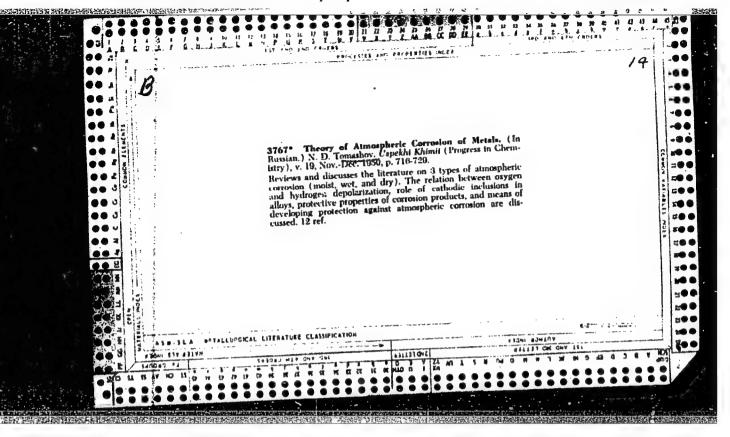


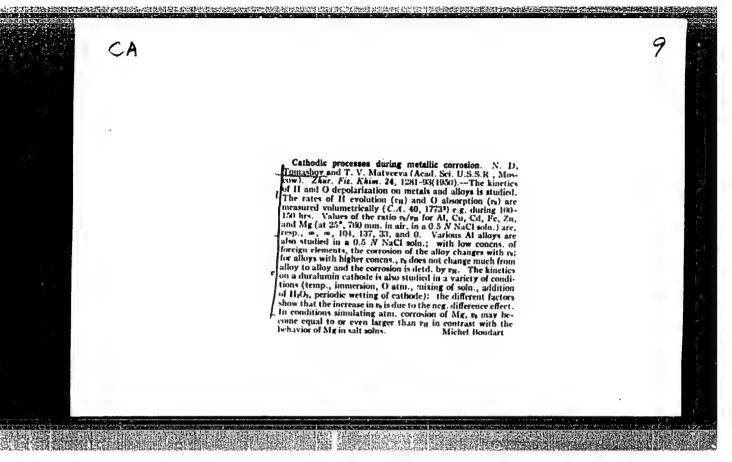
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		gave data from which current-time our lotted.	bemistry - Lecquer, Film (Contd) Aug gave data from which current-time ou lotted. 65/4	used sinc and from electrodes and a chloride solution which served as a nedium. Electrodes were carefully produced then inserted in solution with statem of 3 cm. A galvanometer and 65/4 emistry - Lacquer, Film (Contd) Auggave data from which current-time our otted.











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Trudy Inst. Fiz. Khim.. Akad. Nauk S.S.S.R. 2, Issledovaniya po Korrozii
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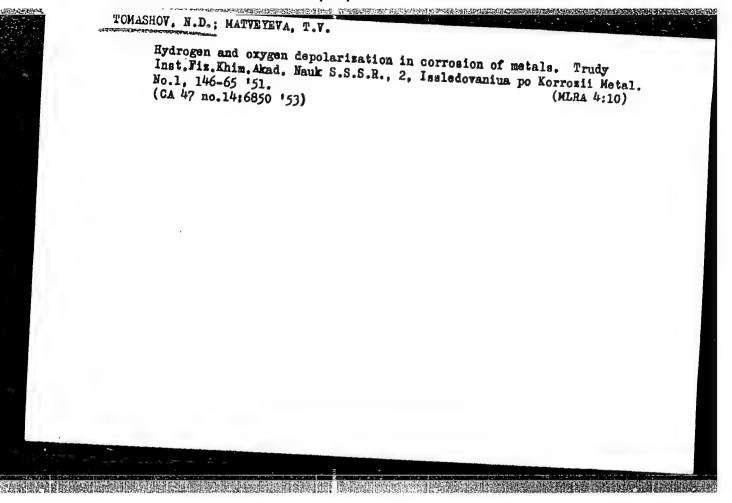
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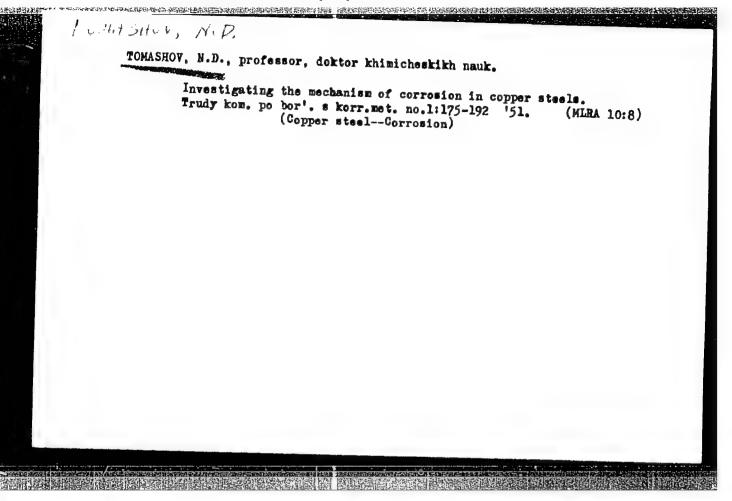
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